

REMARKS

The above Amendments and these Remarks are in reply to the Final Office Action dated December 18, 2006, and the subsequent DECISION ON APPEAL entered by the Board of Patent Appeals and Interferences. Applicants hereby submit a Request for Continued Examination (RCE) under 37 CFR 1.114. In compliance with 37 CFR 1.114, the RCE is submitted prior to the filing of a notice of appeal to the U.S. Court of Appeals for the Federal Circuit under 35 U.S.C. 141. Claims 30, 35, 36 and 38 were pending in the Application prior to the outstanding Office Action. Claim 38 is currently cancelled, claims 30 and 35 are currently amended, and claims 39 and 40 are newly added. Support for the claim amendments and new claims is provided in the Application as originally filed, and thus, no new matter has been added. In view of the following Remarks, reconsideration and withdrawal of the outstanding rejections are respectfully requested.

The Final Office Action

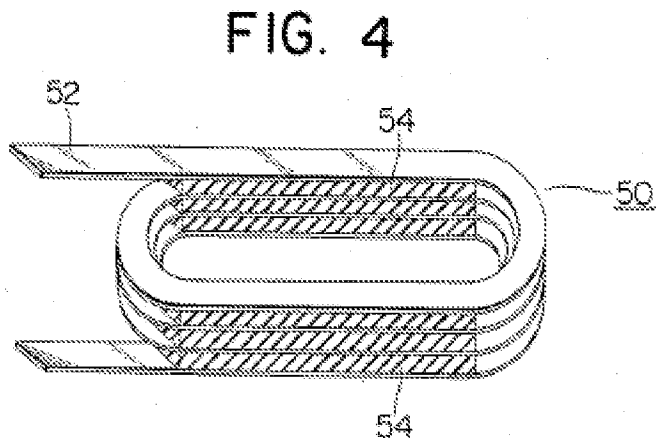
(1) rejected claims 30 and 38 under 35 U.S.C. 102(b) as being anticipated by *Amagasa* (U.S. Pat. No. 4,750,077).

(2) rejected claims 35 and 36 under 35 U.S.C. 103(a) as being unpatentable over *Ye et al.* (U.S. Pat. No. 6,488,862) in view of *Amagasa*.

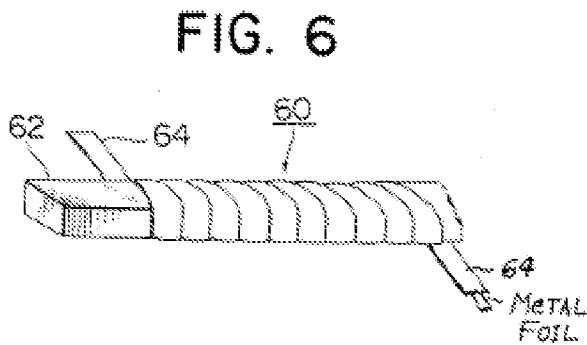
(1). Regarding the rejection of claims 30 and 38 under 35 U.S.C. 102(b) as being anticipated by *Amagasa*, Applicants respectfully request cancellation of claim 38, and has amended claim 30 to further clarify the scope of the invention. Applicants respectfully submit that *Amagasa* fails to anticipate claim 30 as amended. *Amagasa* discloses several embodiments whereby an insulator (54, 64) separates coil turns of a coil conductor (52, 62). However, *Amagasa* fails to disclose “a compressed double helix including a first helix having a plurality of flat concentric spiral coils and a complementary second helix having a sheet of dielectric material overlapping the surface of the flat concentric spiral coils” as recited in claim 30.

Referring to the embodiment taught in FIG. 4, *Amagasa* teaches “an insulator 54 is packed between the respective adjacent coil turns of a coil conductor 52.” See col. 4, ln. lines 13-15. As shown in included FIG. 4 below, *Amagasa* teaches creating a gap between turns by

packing an epoxy resin along the elongated portions of the coil conductor, but not between the turns (as can be clearly seen in the cross-hatched section labeled with reference numeral 54). The geometry taught by *Amagasa* in FIG. 4 does not teach “a complementary second helix having a sheet of dielectric material overlapping the surface of the flat concentric spiral coils.”



Referring to the embodiment taught in FIG. 6, *Amagasa* teaches that “in this coil device, **the spaces between** the respectively adjacent coil turns of a coil conductor 62 of copper **are vacant**, but a polyimide film 64 which is several tens um thick is wound round the coil conductor 62...” (Emphasis added). See col. 4, ln. 31-35. This structure is not a “double helix” as recited in claim 30, and the polyimide film is not “a complementary second helix.” *Amagasa* makes the point that “the film 64 need not be a single tape continuous over the whole coil conductor 62.” See col. 4, ln. 46-48. The geometry taught by *Amagasa* in FIG. 6 does not teach “a complementary second helix having a sheet of dielectric material overlapping the surface of the flat concentric spiral coils.”



Nowhere does *Amagasa* describe “a complementary second helix having a sheet of dielectric material overlapping the surface of the flat concentric spiral coils” as recited in claim 30. Because *Amagasa* fails to disclose all of the features of claim 30, *Amagasa* cannot anticipate claim 30 under 35 U.S.C. 102(b).

(2). Regarding the rejection of claims 35 and 36 under 35 U.S.C. 103(a) as being unpatentable over *Ye et al.* in view of *Amagasa*., Applicants have amended claim 35 to further clarify the scope of the invention. Applicants respectfully submit that *Ye* in view of *Amagasa* fails to render obvious claim 35 as amended. For the reasons given above, *Amagasa* fails to disclose “a sheet of dielectric material having a spiral shape complementary to the spirally-connected ribbon-shaped coil and entwined with the spirally-connected ribbon-shaped coil to form a double helix” as recited in claim 35. Applicants submit that *Ye* fails to remedy this deficiency.

Nowhere does *Ye* or *Amagasa*, separately or in combination teach or describe “a sheet of dielectric material having a spiral shape complementary to the spirally-connected ribbon-shaped coil and entwined with the spirally-connected ribbon-shaped coil to form a double helix” as recited in claim 35. Because *Ye* in view of *Amagasa* fails to teach or suggest all of the features of claim 35, *Ye* in view of *Amagasa* cannot render claim 35 obvious under 35 U.S.C. 103(a). Dependent claims have at least the features of the independent claim from which they depend; therefore, *Ye* in view of *Amagasa* cannot render claim 36 (which depends from claim 35) obvious under 35 U.S.C. 103(a).

Additional Claims

Applicants respectfully submit that newly added claims 39 and 40 are allowable over the cited prior art. Applicants submit that support for newly added claim 40 can be found in FIG. 1D of the present application, and accompanying detailed description.

Conclusion

In light of the above, it is respectfully requested that all outstanding rejections be reconsidered and withdrawn. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

The Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this reply, including any fee for extension of time, which may be required.

Respectfully submitted,

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